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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	183	707/100.ccls. and (data with replicat$4) and (change delta)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/19 15:27
L2	3	707/100.ccls. and (data with replicat$4) and (change delta) and (time$stamp date$stamp) and ((change delta transaction) with (time$stamp date$stamp)) and (atomic$7 ACID)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/19 15:28
S1	5	"2005004088"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 16:05
S2	2	"20050044088"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 16:09
S3	308	(asynchronous$4 with replicat$4 with (data content))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 16:10
S4	90	(asynchronous$4 with replicat$4 with (data content)) and (atomic$7 all$or$nothing (all adj2 nothing))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 16:11
S5	70	(asynchronous$4 with replicat$4 with (data content)) and (atomic$7 all$or$nothing (all adj2 nothing)) and track$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 16:12

S6	13	(asynchronous$4 with replicat$4 with (data content)) and (atomic$7 all$or$nothing (all adj2 nothing)) and (track$3 with replicat$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 16:12
S7	13	(asynchronous$4 with replicat$4 with (data content)) and (atomic$7 all$or$nothing (all adj2 nothing)) and (track$3 with replicat$4) and (time time$stamp$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 16:33
S8	4	(asynchronous$4 with replicat$4 with (data content)) and (atomic$7 all$or$nothing (all adj2 nothing)) and (track$3 with replicat$4) and (time time$stamp$3) and (persistent with storage)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 16:36
S9	5	(asynchronous$4 with replicat$4 with (data content)) and (atomic$7 all$or$nothing (all adj2 nothing) (phase with commit$6)) and (track$3 with replicat$4) and (time time$stamp$3) and (persistent with storage)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 16:38
S10	17	(asynchronous$4 with replicat$4 with (data content)) and (atomic$7 all$or$nothing (all adj2 nothing) (phase with commit$6)) and (track$3 with replicat$4) and (time time$stamp$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 16:39
S11	6	(asynchronous$4 with replicat$4 with (data content)) and (atomic$7 all$or$nothing (all adj2 nothing) (phase with commit$6)) and (track$3 with replicat$4) and (time time$stamp$3) and ((change with record) delta)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 16:28
S12	0	(asynchronous$4 with replicat$4 with (data content)) and (atomic$7 all$or$nothing (all adj2 nothing) (phase with commit$6)) and (track$3 with replicat$4) and (time time$stamp$3) and ((change with record) delta) and (peer adj2 peer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 16:48

S13	0	(asynchronous$4 with replicat$4 with (data content)) and (atomic$7 all$or$nothing (all adj2 nothing) (phase with commit$6)) and (peer adj2 peer) and delta	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 16:49
S14	9	(asynchronous$4 with replicat$4 with (data content)) and (atomic$7 all$or$nothing (all adj2 nothing) (phase with commit$6)) and delta	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 16:49
S15	4	(asynchronous$4 with replicat$4 with (data content)) and (atomic$7 all$or$nothing (all adj2 nothing) (phase with commit$6)) and delta and (time$stamp$3 or (time adj stamp)) and (sequence with number)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 16:55
S16	55	"6122630"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/26 16:55
S17	66	(asynchronous$4 with replicat$4) and (atomic$7 all$or$nothing (all adj2 nothing)) and (recover$3) and (time time$stamp$3) and ((change with record) delta)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 13:45
S18	50	(asynchronous$4 with replicat$4) and (atomic$7 all$or$nothing (all adj2 nothing)) and (recover$3) and (time time$stamp$3) and ((change with record) delta) and buffer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 13:47
S19	46	(asynchronous$4 with replicat$4) and (atomic$7 all$or$nothing (all adj2 nothing)) and (recover$3) and (time time$stamp$3) and ((change with record) delta) and buffer and ((change with table) queue)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 13:49

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S20	7	"6546402"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 15:31
S21	1	"6546402" and (atomic$6 (all adj2 nothing) ("all-or-nothing"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 15:47
S22	2	"20030093462"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 15:49
S23	2	"20040260749"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 15:49
S24	4	(asynchronous$4 with replicat$4) and (persisten$4 with (delta or (change adj table)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 16:39
S25	15637	((track$3 with (data information info)) (timestamp with id number identification)) with (delta (change adj record))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 16:41
S26	18	(((track$3 with (data information info)) (timestamp with id number identification)) with (delta (change adj record))) and (asynchronous$4 with replicat$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 16:43

S27	2	(((track$3 with (data information info))) with (delta (change adj record))) and (asynchronous$4 with replicat$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 16:44
S28	5	(track$3 with (delta (change adj record))) and (asynchronous$4 with replicat$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 16:51
S29	7	"6763352"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 16:48
S30	5	("6763352").URPN.	USPAT	OR	OFF	2007/02/07 16:49
S31	4	(track$3 with (delta (change adj record))) and (asynchronous$4 with replicat$4) and (udp or datagram)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 18:06

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	782	((embed$4 insert$4) with (track$3 identifier time$stamp) with (delta change))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/19 11:27
S2	69	((embed$4 insert$4) with (track$3 identifier time$stamp) with (delta change)) and (acid atomic$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/19 11:28
S3	70	((embed$4 insert$4) with (track$3 identifier time$stamp) with (delta change)) and (acid atomic$6 "all-or-nothing" "all or nothing")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/19 11:35
S4	49	((embed$4 insert$4) with (track$3 identifier time$stamp) with (delta .change)) and (acid atomic$6 "all-or-nothing" "all or nothing") and (asynchronous synchron$8 replicat$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/19 11:49
S5	14	(("5878414") or ("5440727") or ("5499367") or ("5675791") or ("5890154") or ("5945689") or ("6192365")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/19 11:54
S6	20	(("5212772") or ("5506962") or ("5737738") or ("6138124") or ("20010037398") or ("6253211") or ("20010055274") or ("6338092") or ("6335937") or ("20020152362")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/19 11:57
S7	3	S6 and ((delta change) with (number id identifier time$stamp))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/19 12:01

S8	3	S6 and ((delta change) with (number id identifier time$stamp))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/19 12:01
S9	1932	(embed$4 insert$4) with (identifier time$stamp number id) with transaction	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/19 12:02
S10	922	((embed$4 insert$4) with (identifier time$stamp number id) with transaction) and (replicat$4 asynchronous synchroniz$6)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/19 12:03
S11	78	((embed$4 insert$4) with (identifier time$stamp number id) with transaction) and (replicat$4 asynchronous synchroniz$6) and (acid atomic$7)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/19 12:03
S12	75	((embed$4 insert$4) with (identifier time$stamp number id) with transaction) and (replicat$4 asynchronous synchroniz$6) and (acid atomic$7) and (change delta)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/19 12:03
S13	72	((embed$4 insert$4) with (identifier time$stamp number id) with transaction) and (replicat$4 asynchronous synchroniz$6) and (acid atomic$7) and ((change with (record data information table)) delta)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/19 12:38

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Aghdaie, N.; Tamir, Y.;
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Software Engineering, 2000. Proceedings of the 2000 International Conferenc(
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1 An introduction to data warehousing: what are the implications for the network?   ⬛
Katherine Jones
February 1998 **International Journal of Network Management**, Volume 8 Issue 1
Publisher: John Wiley & Sons, Inc.
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> Data warehousing is an information systems environment, rather than a product. It has emerged as an essential business entity for sophisticated analysis of data. This article presents a clear overview of the implications of data warehousing for business. © 1998 John Wiley & Sons, Ltd.

2 Conversational group service   ⬛
Alexander B. Romanovsky
January 1997 **ACM SIGOPS Operating Systems Review**, Volume 31 Issue 1
Publisher: ACM Press
Full text available: 📄 pdf(849.51 KB)   Additional Information: full citation, abstract, index terms

> The purpose of this paper is to propose a way of tolerating software (design) faults in distributed systems relying on the well-known conversation (atomic action) approach. To do this, we shall consider differences between two programming paradigms: group communication and conversations, and discuss how a group communication service can be used to provide design fault tolerance by conversations. The main characteristics and peculiarities of this new conversational group service are described.

3 Group communication specifications: a comprehensive study   ⬛
Gregory V. Chockler, Idid Keidar, Roman Vitenberg
December 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 4
Publisher: ACM Press
Full text available: 📄 pdf(499.61 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

> View-oriented group communication is an important and widely used building block for many distributed applications. Much current research has been dedicated to specifying the semantics and services of view-oriented group communication systems (GCSs). However, the guarantees of different GCSs are formulated using varying terminologies and modeling techniques, and the specifications vary in their rigor. This makes it difficult to analyze and compare the different systems. This survey provi ...

Keywords: Group communication systems, partitionable group membership, process group membership, specifications of group communication systems, view synchrony, virtual synchrony

4 Problem space promotion and its evaluation as a technique for efficient parallel computation

Bradford L. Chamberlain, E. Christopher Lewis, Lawrence Snyder
May 1999 **Proceedings of the 13th international conference on Supercomputing ICS '99**
Publisher: ACM Press
Full text available: pdf(1.06 MB)   Additional Information: full citation, references, citings, index terms

5 Query Optimization in Database Systems

Matthias Jarke, Jurgen Koch
June 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 2
Publisher: ACM Press
Full text available: pdf(2.84 MB)   Additional Information: full citation, references, citings, index terms

6 Efficient availability mechanisms in distributed database systems

Bharat Bhargava, Abdelsalam Helal
December 1993 **Proceedings of the second international conference on Information and knowledge management CIKM '93**
Publisher: ACM Press
Full text available: pdf(1.06 MB)   Additional Information: full citation, references, citings, index terms

7 Design and evaluation of a conit-based continuous consistency model for replicated services

Haifeng Yu, Amin Vahdat
August 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 3
Publisher: ACM Press
Full text available: pdf(406.85 KB)   Additional Information: full citation, abstract, references, citings, index terms

The tradeoffs between consistency, performance, and availability are well understood. Traditionally, however, designers of replicated systems have been forced to choose from either strong consistency guarantees or none at all. This paper explores the semantic space between traditional strong and optimistic consistency models for replicated services. We argue that an important class of applications can tolerate relaxed consistency, but benefit from bounding the maximum rate of inconsistent access ...

Keywords: Conit, consistency model, continuous consistency, network services, relaxed consistency, replication

8 Bibliography of recent publication in computer networking

July 1989 **ACM SIGCOMM Computer Communication Review**, Volume 19 Issue 3
Publisher: ACM Press
Full text available: Additional Information:

9 Transactions and consistency in distributed database systems

Irving L. Traiger, Jim Gray, Cesare A. Galtieri, Bruce G. Lindsay
September 1982 **ACM Transactions on Database Systems (TODS),** Volume 7 Issue 3
Publisher: ACM Press

Full text available: 📄 pdf(1.48 MB)   Additional Information: full citation, abstract, references, citings, index terms

The concepts of transaction and of data consistency are defined for a distributed system. The cases of partitioned data, where fragments of a file are stored at multiple nodes, and replicated data, where a file is replicated at several nodes, are discussed. It is argued that the distribution and replication of data should be transparent to the programs which use the data. That is, the programming interface should provide location transparency, replica transparency, concurrency transparency, ...

Keywords: concurrency control, data partitioning, data replication, recovery

10 Multi-μ: an Ada 95 based architecture for fault tolerance support of real-time systems

Luís Miguel Pinho, Francisco Vasques
November 1998 **ACM SIGAda Ada Letters , Proceedings of the 1998 annual ACM SIGAda international conference on Ada SIGAda '98,** Volume XVIII Issue 6
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Keywords: Ada 95, off-the-shelf components, real-time systems, software based fault tolerance

11 Dependable and adaptive distributed systems (DADS): From spontaneous total order to uniform total order: different degrees of optimistic delivery

Luís Rodrigues, José Mocito, Nuno Carvalho
April 2006 **Proceedings of the 2006 ACM symposium on Applied computing SAC '06**
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A total order protocol is a fundamental building block in the construction of distributed fault-tolerant applications. Unfortunately, the implementation of such a primitive can be expensive both in terms of communication steps and of number of messages exchanged. This problem is exacerbated in large-scale systems, where the performance of the algorithm may be limited by the presence of high-latency links.Optimistic total order protocols have been proposed to alleviate this problem. However, diff ...

12 Authoring for comprehension: From the writable web to global editability

Angelo Di Iorio, Fabio Vitali
September 2005 **Proceedings of the sixteenth ACM conference on Hypertext and hypermedia HYPERTEXT '05**
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The technical and competence requirements for writing content on the web is still one of the major factors that widens the gap between authors and readers. Although tools that

support an easy approach to web writing, such as blogs and wikis, are becoming increasingly important and mainstream, they still lack in terms of layout and typographical sophistication, and, most importantly, only allow local editing (on the pages that are stored by the application itself). In this paper we re-propose an ...

Keywords: collaboration, customization, data collection, global editability, web authoring

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